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        RAW SEQUENCE LISTING              DATE: 03/13/2002
        PATENT APPLICATION: US/10/082,659   TIME: 11:05:58

              Input Set : N:\Crf3\RULE60\10082659.raw
              Output Set: N:\CRF3\03132002\J082659.raw

 1 <110> APPLICANT: Abbott Laboratories
 2        Cohen, Maurice
 3        Colpitts, Tracey L.
 4        Friedman, Paula N.
 5        Granados, Edward N.
 6        Klass, Michael R.
 7        Russell, John C.
 8        Stroupe, Stephen D.
 9 <120> TITLE OF INVENTION: REAGENTS AND METHODS USEFUL FOR
10        DETECTING DISEASES OF THE PROSTATE
11 <130> FILE REFERENCE: 6171.US.P1
13 <140> CURRENT APPLICATION NUMBER: 10/082,659
14 <141> CURRENT FILING DATE: 2002-02-25
16 <150> PRIOR APPLICATION NUMBER: 09/566,876
17 <151> PRIOR FILING DATE: 2000-05-08
18 <160> NUMBER OF SEQ ID NOS: 21
19 <170> SOFTWARE: FastSEQ for Windows Version 3.0
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 187
23 <212> TYPE: DNA
24 <213> ORGANISM: Homo sapiens
25 <220> FEATURE:
26 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
27        position 2
28 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
29        position 96
30 <400> SEQUENCE: 1
W--> 31    tnttttttgt ttgctctgaa tttattgcga gtgaaaaaca gagaaaatcc tcaagtttaa    60
W--> 32    gtttctgata gcagagtgtg ggagttagag catggngagt ccagaggttc cagacccccca   120
     33    aaggtctcta ccagggccat ctccgttagt ggcggtggca gcccctcttg tggcctttt    180
     34    cctctct                                                              187
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 250
38 <212> TYPE: DNA
39 <213> ORGANISM: Homo sapiens
40 <400> SEQUENCE: 2
     41    gtttgctctg aatttattgc gagtgaaaaa cagagaaaat cctcaagttt aagtttctga    60
     42    tagcagagtg tgggagttag agcatgggga gtccagaggt tccagacccc caaaggtctc   120
     43    taccagggcc atctccgtta gtggcggtgg cagcccctct tgtggccttt ttcctctctc   180
     44    caaggggtca ccccgcacca tgccgctccc cctcatctat cttgccccct ccccacaggc   240
     45    ccatctgcgc                                                           250
47 <210> SEQ ID NO: 3
48 <211> LENGTH: 224
```

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49 <212> TYPE: DNA
50 <213> ORGANISM: Homo sapiens
51 <220> FEATURE:
52 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
53       position 71
54 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
55       position 73
56 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
57       position 76
58 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
59       position 81
60 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
61       position 93
62 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
63       position 138
64 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
65       position 187
66 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
67       positions 191 and 192
68 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
69       position 207
70 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
71       position 212
72 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
73       position 223
74 <400> SEQUENCE: 3
75           cgatcgggca agtaaacccc ctccctcgcc gacttcggaa ctggcgagag ttcagcgcag      60
W--> 76      atgggcctgt ngngangggg naagatagat ganggggagc ggcatggtgc ggggtgaccc     120
W--> 77      cttggagaga ggaaaaangc cacaagaggg gctgccaccg ccactaacgg agatggccct     180
W--> 78      ggtaganact nnggggggtct ggaactnctg gnctccccat gcnc                        224
80 <210> SEQ ID NO: 4
81 <211> LENGTH: 312
82 <212> TYPE: DNA
83 <213> ORGANISM: Homo sapiens
84 <220> FEATURE:
85 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
86       position 2
87 <400> SEQUENCE: 4
W--> 88      tnttttttgt ttgctctgaa tttattgcga gtgaaaaaca gagaaaatcc tcaagtttaa      60
89           gtttctgata gcagagtgtg ggagttagag catggggagt ccagaggttc cagacccca      120
90           aaggtctcta ccagggccat ctccgttagt ggcggtggca gcccctcttg tggccttttt     180
91           cctctctcca aggggtcacc ccgcaccatg ccgctcccc tcatctatct tgcccctcc      240
92           ccacaggccc atctgcgctg aactctcgcc agttccgaag tcggcgaggg aggggttta      300
93           cttgcccgat cg                                                            312
95 <210> SEQ ID NO: 5
96 <211> LENGTH: 68
97 <212> TYPE: DNA
98 <213> ORGANISM: Homo sapiens
99 <400> SEQUENCE: 5
```

```
100        agctcggaat tccgagcttg gatcctctag agcggccgcc gactagtgag ctcgtcgacc      60
101        cgggaatt                                                                68
103 <210> SEQ ID NO: 6
104 <211> LENGTH: 68
105 <212> TYPE: DNA
106 <213> ORGANISM: Homo sapiens
107 <400> SEQUENCE: 6
108        aattaattcc cgggtcgacg agctcactag tcggcggccg ctctagagga tccaagctcg      60
109        gaattccg                                                                68
111 <210> SEQ ID NO: 7
112 <211> LENGTH: 24
113 <212> TYPE: DNA
114 <213> ORGANISM: Homo sapiens
115 <400> SEQUENCE: 7
116        agcggataac aatttcacac agga                                              24
118 <210> SEQ ID NO: 8
119 <211> LENGTH: 18
120 <212> TYPE: DNA
121 <213> ORGANISM: Homo sapiens
122 <400> SEQUENCE: 8
123        tgtaaaacga cggccagt                                                     18
125 <210> SEQ ID NO: 9
126 <211> LENGTH: 73
127 <212> TYPE: PRT
128 <213> ORGANISM: Homo sapiens
129 <400> SEQUENCE: 9
130        Met Gly Ser Pro Glu Val Pro Asp Pro Gln Arg Ser Leu Pro Gly Pro
131         1               5                   10                  15
132        Ser Pro Leu Val Ala Val Ala Ala Pro Leu Val Ala Phe Phe Leu Ser
133                        20                  25                  30
134        Pro Arg Gly His Pro Ala Pro Cys Arg Ser Pro Ser Ser Ile Leu Pro
135                    35                  40                  45
136        Pro Pro His Arg Pro Ile Cys Ala Glu Leu Ser Pro Val Pro Lys Ser
137             50                  55                  60
138        Ala Arg Glu Gly Val Tyr Leu Pro Asp
139         65                  70
141 <210> SEQ ID NO: 10
142 <211> LENGTH: 24
143 <212> TYPE: PRT
144 <213> ORGANISM: Homo sapiens
145 <400> SEQUENCE: 10
146        Met Gly Ser Pro Glu Val Pro Asp Pro Gln Arg Ser Leu Pro Gly Pro
147         1               5                   10                  15
148        Ser Pro Leu Val Ala Val Ala Ala
149                        20
151 <210> SEQ ID NO: 11
152 <211> LENGTH: 31
153 <212> TYPE: PRT
154 <213> ORGANISM: Homo sapiens
```

```
155 <400> SEQUENCE: 11
156      Leu Val Ala Phe Phe Leu Ser Pro Arg Gly His Pro Ala Pro Cys Arg
157      1               5               10              15
158      Ser Pro Ser Ser Ile Leu Pro Pro Pro His Arg Pro Ile Cys Ala
159                  20              25                  30
161 <210> SEQ ID NO: 12
162 <211> LENGTH: 21
163 <212> TYPE: PRT
164 <213> ORGANISM: Homo sapiens
165 <400> SEQUENCE: 12
166      Ser Pro Arg Gly His Pro Ala Pro Cys Arg Ser Pro Ser Ser Ile Leu
167      1               5               10              15
168      Pro Pro Pro His Arg
169                  20
171 <210> SEQ ID NO: 13
172 <211> LENGTH: 29
173 <212> TYPE: PRT
174 <213> ORGANISM: Homo sapiens
175 <400> SEQUENCE: 13
176      Ser Ile Leu Pro Pro Pro His Arg Pro Ile Cys Ala Glu Leu Ser Pro
177      1               5               10              15
178      Val Pro Lys Ser Ala Arg Glu Gly Val Tyr Leu Pro Asp
179                  20              25
181 <210> SEQ ID NO: 14
182 <211> LENGTH: 13
183 <212> TYPE: PRT
184 <213> ORGANISM: Homo sapiens
185 <400> SEQUENCE: 14
186      Val Pro Lys Ser Ala Arg Glu Gly Val Tyr Leu Pro Asp
187      1               5               10
189 <210> SEQ ID NO: 15
190 <211> LENGTH: 8
191 <212> TYPE: PRT
192 <213> ORGANISM: Homo sapiens
193 <400> SEQUENCE: 15
194      Asp Tyr Lys Asp Asp Asp Asp Lys
195      1               5
197 <210> SEQ ID NO: 16
198 <211> LENGTH: 21
199 <212> TYPE: PRT
200 <213> ORGANISM: Homo sapiens
201 <400> SEQUENCE: 16
202      Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Met His Thr Glu His
203      1               5               10              15
204      His His His His His
205                  20
207 <210> SEQ ID NO: 17
208 <211> LENGTH: 246
209 <212> TYPE: DNA
```

```
210 <213> ORGANISM: Homo sapiens
211 <400> SEQUENCE: 17
212       tttttgtttg ctctgaattt attgcgagtg aaaaacagag aaaatcctca agtttaagtt      60
213       tctgatagca gagtgtggga gtagagcatg gggagtccag aggttccaga cccccaaagg     120
214       tctctaccag gggcatctcc gttagtggcg gtggcagccc ctcttgtggc cttttttcctc    180
215       tctccaaggg gtcaccccgc accatgccgc tccccctcat ctatcttgcc ccctccccac     240
216       aggcca                                                               246
218 <210> SEQ ID NO: 18
219 <211> LENGTH: 704
220 <212> TYPE: DNA
221 <213> ORGANISM: Homo sapiens
222 <400> SEQUENCE: 18
223       tttttgtttg ctctgaattt attgcgagtg aaaaacagag aaaatcctca agtttaagtt      60
224       tctgatagca gagtgtggga gttagagcat ggggagtcca gaggttccag acccccaaag     120
225       gtctctacca gggccatctc cgttagtggc ggtggcagcc cctcttgtgg ccttttttcct    180
226       ctctccaagg ggtcaccccg caccatgccg ctcccccctca tctatcttgc ccctcccca     240
227       caggcccatc tgcgctgaac tctcgccagt tccgaagtcg gcgagggagg gggtttactt     300
228       gcccgatcgt tggtgggttt gagcttatag aggcagagga gtaagaacct gcgatattga     360
229       aagctaccca catgggcctt ccttgaagga ggacgtggaa ggcagaaagt gacctgctct·    420
230       gagcggcgca, tgtaaccgag gaccttaagc tggaccacgg ggcttggacg attttttaaa     480
231       tcaggaaatc gacctcatct tcctcctcct cgtcctcttc ccctgaaccc ccagtccgca     540
232       tgcactcaca ctctttggcc ttttccctca gtcccgggct cctctttggt aaatagattt      600
233       gtaggtgtct aagtcacgtc ccaccctcac tccttcccag gagaggagac agggctagga     660
234       tcccacccga ccgcgggcca taaacacttg gctgcggcgg ccgc                     704
236 <210> SEQ ID NO: 19
237 <211> LENGTH: 263
238 <212> TYPE: DNA
239 <213> ORGANISM: Homo sapiens
240 <400> SEQUENCE: 19
241       gaggaagatg aggtcgattt cctgatttaa aaaatcgtcc aagccccgtg gtccagctta      60
242       aggtcctcgg ttacatgcgc cgctcagagc aggtcacttt ctgccttcca cgtcctcctt     120
243       caaggaagcc ccatgtgggt agctttcaat atcgcaggtt cttactcctc tgcctctata     180
244       agctcaaacc caccaacgat cgggcaagta aacccctcc ctcgccgact tcggaactgg      240
245       cgagagttca gcgcagatgg gcc                                             263
247 <210> SEQ ID NO: 20
248 <211> LENGTH: 203
249 <212> TYPE: DNA
250 <213> ORGANISM: Homo sapiens
251 <220> FEATURE:
252 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
253       position 16
254 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown or other at
255       position 78
256 <400> SEQUENCE: 20
W--> 257    gaggagcccg ggactnaggg aaaaggccaa agagtgtgag tgcatgcgga ctgggggttc     60
W--> 258    aggggaagag gacgaggngg aggaagatga ggtcgatttc ctgatttaaa aaatcgtcca    120
259       agccccgtgg tccagcttaa ggtcctcggt tacatgcgcc gctcagagca ggtcactttc    180
260       tgccttccac gtcctccttc aag                                            203
262 <210> SEQ ID NO: 21
```

RAW.SEQUENCE LISTING ERROR SUMMARY   DATE: 03/13/2002
PATENT APPLICATION: US/10/082,659   TIME: 11:05:59

Input Set : N:\Crf3\RULE60\10082659.raw
Output Set: N:\CRF3\03132002\J082659.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequenc Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 2,96
Seq#:3; N Pos. 71,73,76,81,93,138,187,191,192,207,212,223
Seq#:4; N Pos. 2
Seq#:20; N Pos. 16,78

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 31,32,33,34
Seq#:2; Line(s) 41,42,43,44,45
Seq#:3; Line(s) 75,76,77,78
Seq#:4; Line(s) 88,89,90,91,92,93
Seq#:5; Line(s) 100,101
Seq#:6; Line(s) 108,109
Seq#:7; Line(s) 116
Seq#:8; Line(s) 123
Seq#:17; Line(s) 212,213,214,215,216
Seq#:18; Line(s) 223,224,225,226,227,228,229,230,231,232,233,234
Seq#:19; Line(s) 241,242,243,244,245
Seq#:20; Line(s) 257,258,259,260
Seq#:21; Line(s) 267,268,269

VARIABLE LOCATION SUMMARY   DATE: 03/13/2002
PATENT APPLICATION: US/10/082,659   TIME: 11:05:59

Input Set : N:\Crf3\RULE60\10082659.raw
Output Set: N:\CRF3\03132002\J082659.raw

Use of n's or Xaa's(NEW RULES):
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
in <220> to <223> section, please explain location of n or Xaa, and which
residue n or Xaa represents.

Seq#:1; N Pos. 2,96
Seq#:3; N Pos. 71,73,76,81,93,138,187,191,192,207,212,223
Seq#:4; N Pos. 2
Seq#:20; N Pos. 16,78

VERIFICATION SUMMARY   DATE: 03/13/2002
PATENT APPLICATION: US/10/082,659   TIME: 11:05:59

Input Set : N:\Crf3\RULE60\10082659.raw
Output Set: N:\CRF3\03132002\J082659.raw

```
L:31  M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
L:31  M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1
L:31  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:32  M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
L:32  M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1
L:32  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:60
L:76  M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:76  M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:76  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:60
L:77  M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:77  M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:77  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:120
L:78  M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:78  M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:78  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:180
L:88  M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4
L:88  M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4
L:88  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:257 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20
L:257 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:258 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20
L:258 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:60
```